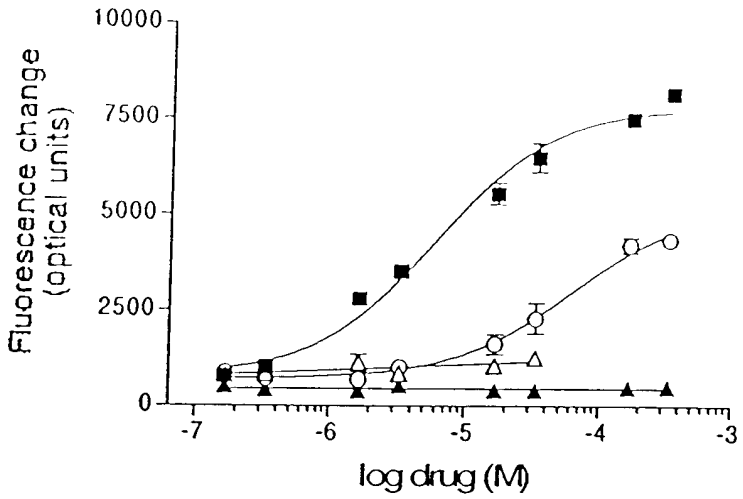
TAGGCTGAAAATAACCATCCTCTCTTTGTTCTCTAGGTAACCAACAAGAAATGCAAGCCGTCGACAACCTCACCTCTGGGCCTGGTAACACCAGTCTGT 100
M Q A V D N L T S A P G N T S L 16
GCACCAGAGACTACAAAATCACCCAGGTCCTCTCCCACTGCTCTACACTGTCCTGTTTTTTGTTGGACTTATCACAAATGGCCTGGCGATGAGGATTTT 200
C T R D Y K I T Q V L F P L L Y T V L F F V G L I T N G L A M R I F 50
CTTTCAAATCCGGAGTAAATCAAACTTTATTATTTTTCTTAAGAACACAGTCATTTCTGATCTTCTCATGATTCTGACTTTTCCATTCAAAATTCTTAGT 300
F Q I R S K S N F I I F L L K N T V I S D L L M I L T F P F K I L S 83
GATGCCAAACTGGGAACAGGACCACTGAGAACTTTTGTGTGTCAAGTTACCTCCGTCATATTTTATTTCACAATGTATATCAGTATTTCATTCCTGGGAC 400
D A K L G T G P L R T F F V C Q V T S V I F Y F T M Y I S I S F L G 116
TGATAACTATCGATCGCTACCAGAAGACCACCAGGCCATTTAAAACATCCAACCCCAAAATCTCTTGGGGCTAAGATTCTCTGTTGTCATCTGGGC 500
L I T I D R Y Q K T T R P F K T S N P K N L L G A K I L S V V I W A 150
ATTCATGTTCTTACTCTCTTTGCCTAACATGATTCTGACCAACAGGCAGCCGAGAGACAAGAATGTGAAGAAATGCTCTTTCCTTAAATCAGAGTTCGGT 600
F M F L L S L P N M I L T N R Q P R D K N V K K C S F L K S E F G 183
CTAGTCTGGCATGAAATAGTAAATTACATCTGTCAAGTCATTTCTGGATTAATTTCTTAATTGTTATTGTATGTTATACACTCATTACAAAAGAACTGT 700
L V W H E I V N Y I C Q V I F W I N F L I V I V C Y T L I T K E L 216
ACGGGTCATACGTAAGAACGAGGGGTGTAGGTAAAGTCCCCAGGAAAAAGGTGAACGTCAAAGTTTTCATTATCATTGCTGTATTCTTTATTTGTTTGT 800
Y R S Y V R T R G V G K V P R K K V N V K V F I I A V F F I C F V 250
TCCTTTCCATTTTGCCCGAATTCCTTACACCCTGAGCCAAACCCGGGATGTCTTTGACTGCACTGCTGAAAATACTCTGTTCTATGTGAAAGAGAGCACT 900
P F H F A R I P Y T L S Q T R D V F D C T A E N T L F Y V K E S - 283
CTGTGGTTAACTTCCTTAAATGCATGCCTGGATCCGTTCATCTATTTTTTCCTTTGCAAGTCCTTCAGAAATTCCTTGATAAGTATGCTGAAGTGCCCCA 1000
L W L T S L N A C L D P F I Y F F L C K S F R N S L I S M L K C S 316
ATTCTGCAACATCTCTGTCCCAGGACAATAGGAAAAAAGAACAGGATGGTGGTGACCCAAATGAAGAGACTCCAATGTAAACAAATTAACTAAGGAAATA 1100
N S A T S L S Q D D N R K K E Q D G G D P N E E T P M . 342
TTTCAATCTCTTTGTGTTCAGAACTCGTTAAAGCAAAGCGCTA 1143

Figure 1

A


10000
7500
5000
2500
0
Fluorescence change
(optical units)
-7
-6
-5
-4
-3
log drug (M)

B

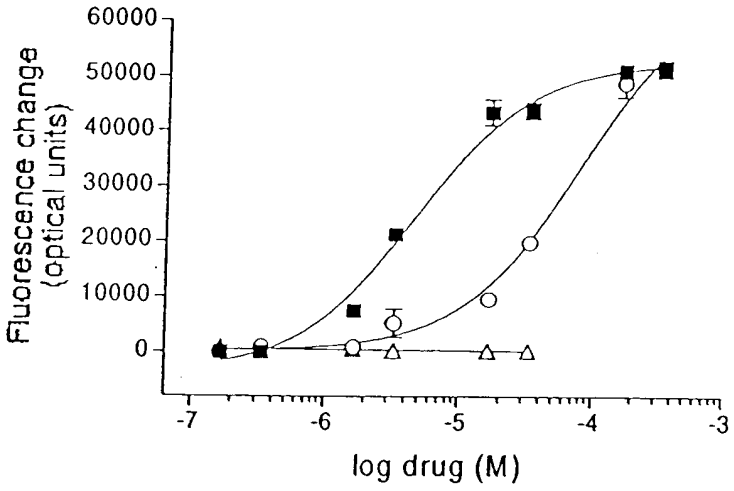

60000
50000
40000
30000
20000
10000
0
Fluorescence change
(optical units)
-7
-6
-5
-4
-3
log drug (M)

Figure 2

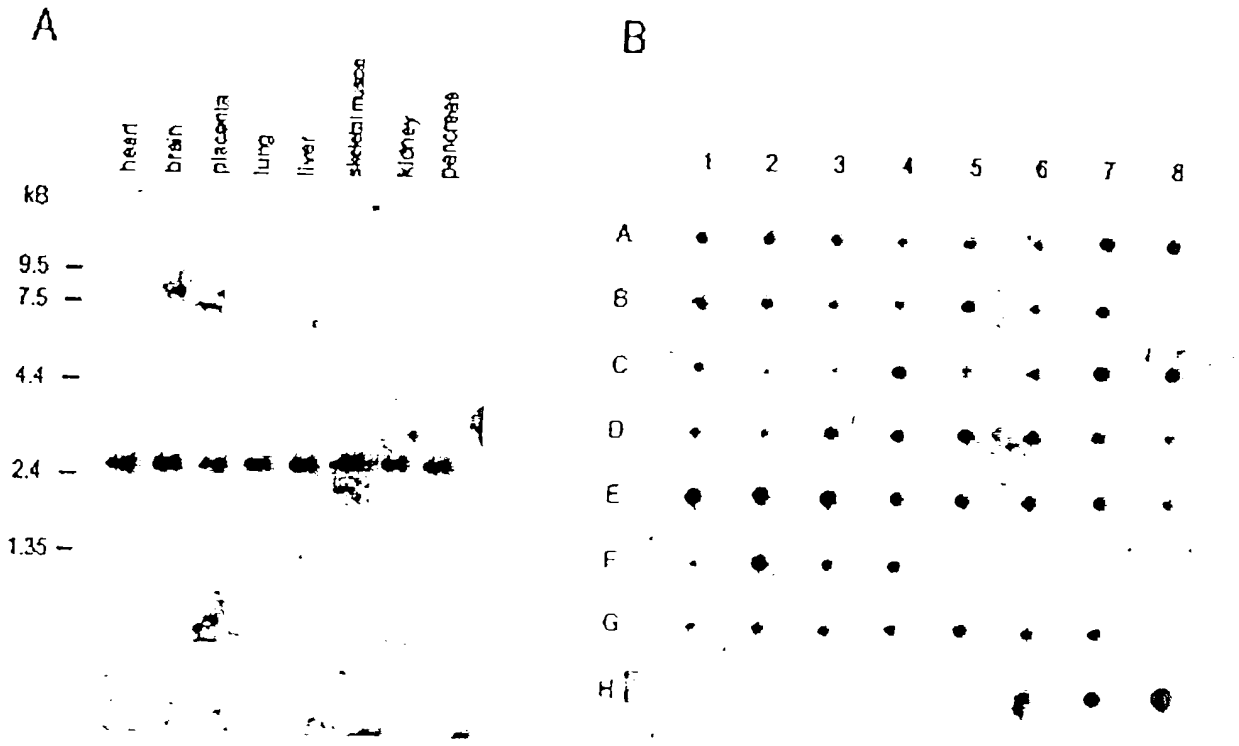

A
heart
brain
placenta
lung
liver
skeletal muscle
kidney
pancreas
kB
9.5
7.5
4.4
2.4
1.35
B
1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H

Figure 3

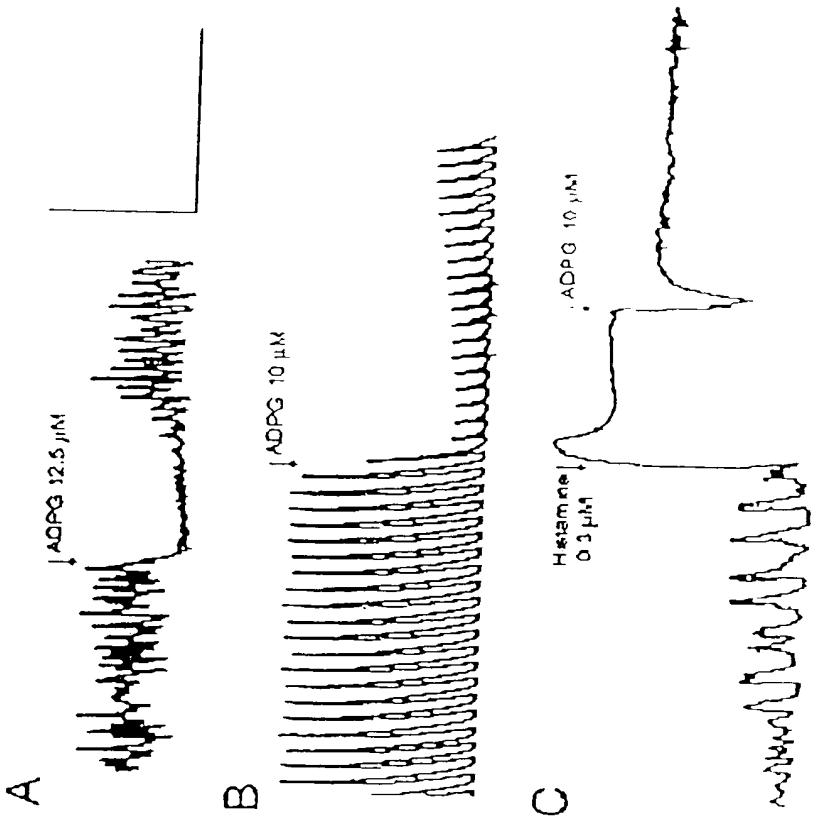
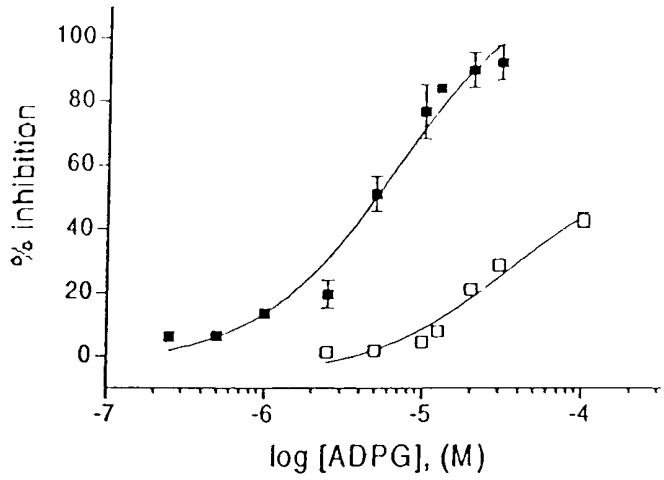


Figure 4

A


100
80
60
40
20
0
% inhibition
-7
-6
-5
-4
log [ADPG], (M)

B

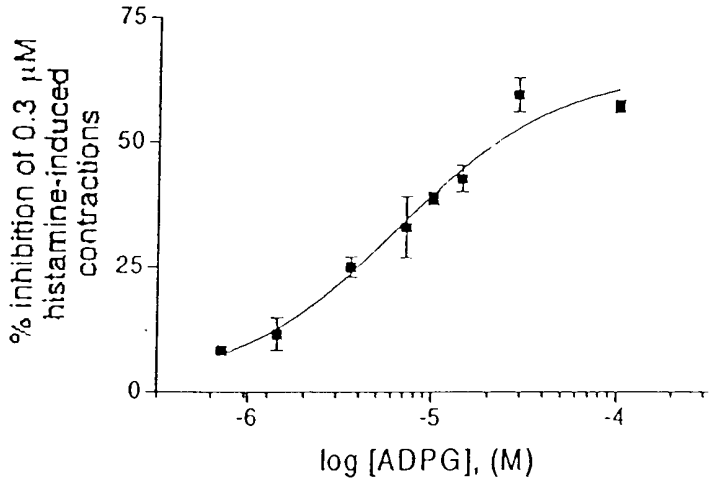
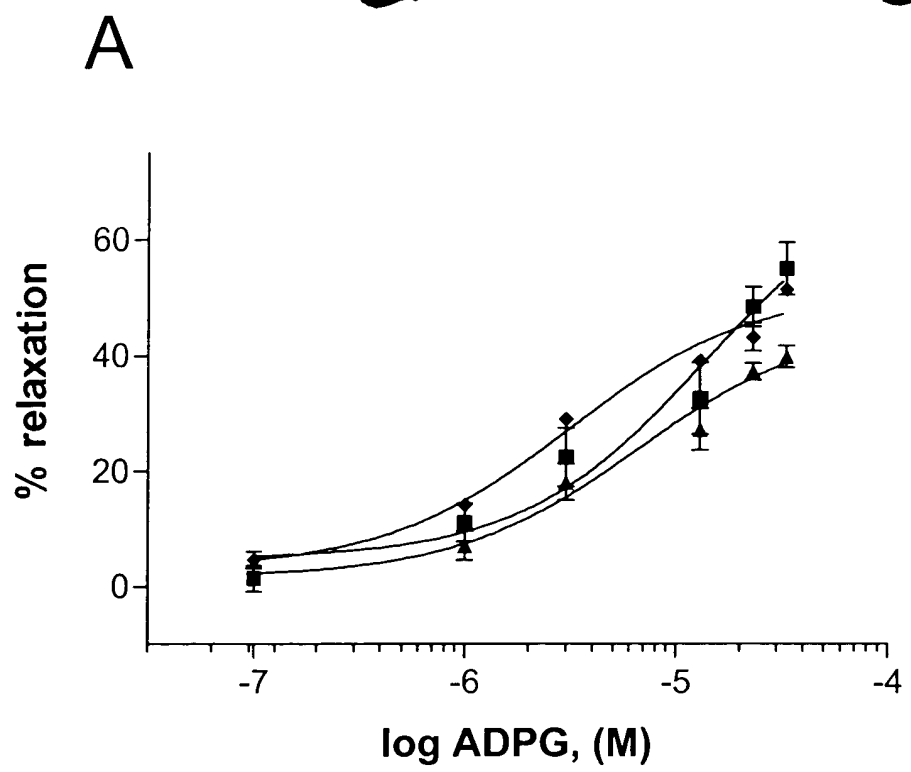

75
50
25
0
% inhibition of 0.3 μM histamine-induced contractions
-6
-5
-4
log [ADPG], (M)

Figure 5


A
% relaxation
60
40
20
0
-7
-6
-5
-4
log ADPG, (M)

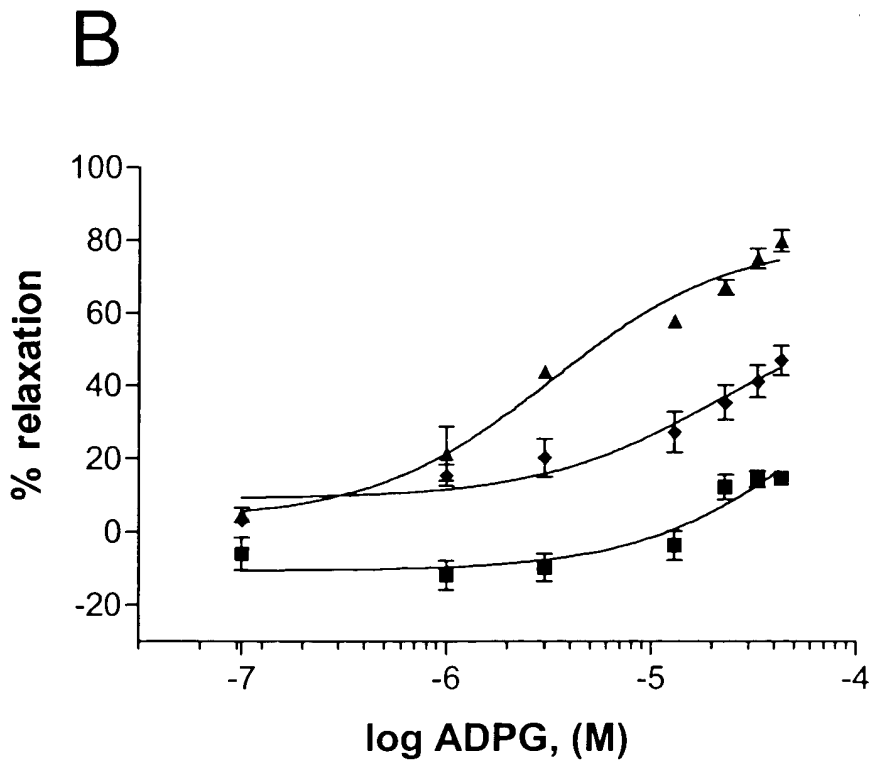

B
% relaxation
100
80
60
40
20
0
-20
-7
-6
-5
-4
log ADPG, (M)

Figure 6